Laboratory Notebook, Cat. 1169

This notebook covers the period March 1875-November 1876. The book was begun by Charles P. Edison, who inscribed the first page: "C.P. Edison Newark New Jersey March 10th 1875." The only other dated entry in the first part of the book is for October 5, 1876. Most of the material relates to telegraph apparatus. Included are circuit diagrams, drawings of instruments (especially printers, sounders, and keys), and calculations. There are also cartoons and doodles.

The second part of the book contains signed drawings by Thomas A. Edison, along with a few by James Adams. The drawings relate to multiple and acoustic telegraphy, and the few dated ones fall between September and November 1876. In addition to the drawings, there are clippings and advertisements about electrical apparatus and steam engines, and an obituary of Marshall Lefferts.

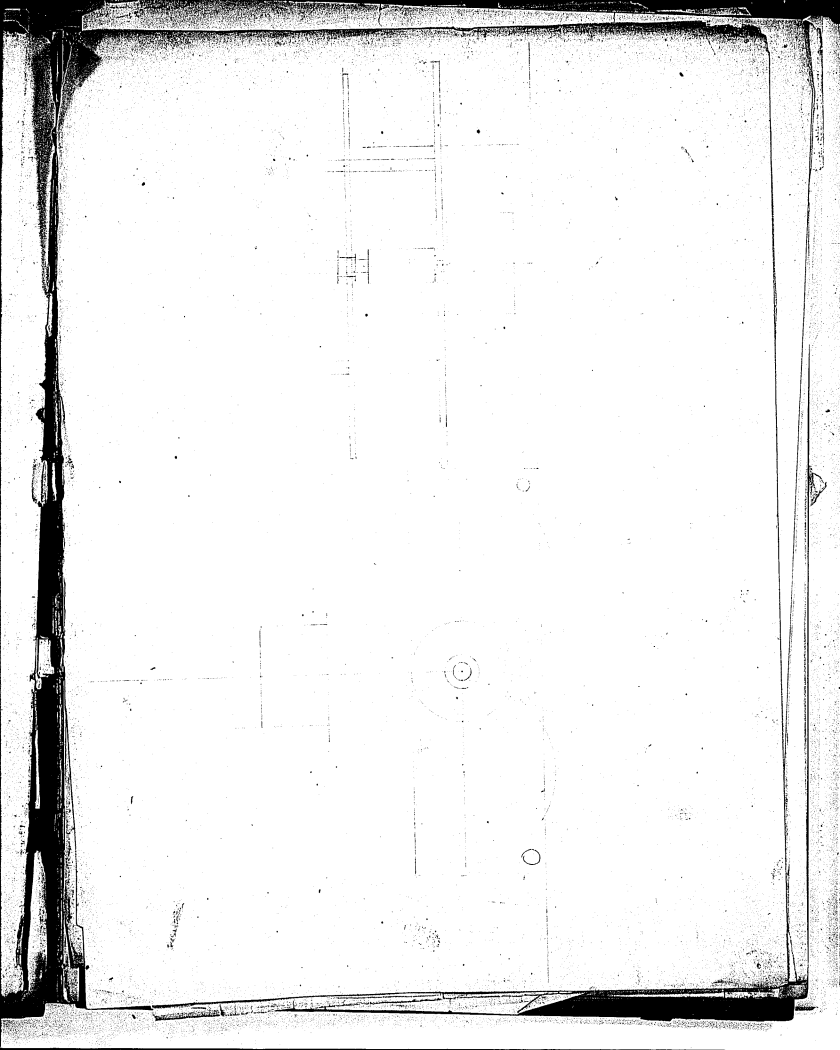
The book contains 137 numbered pages, preceded by seven unnumbered leaves. The number 131 has not been used. Many leaves were apparently torn out before the pages were numbered.

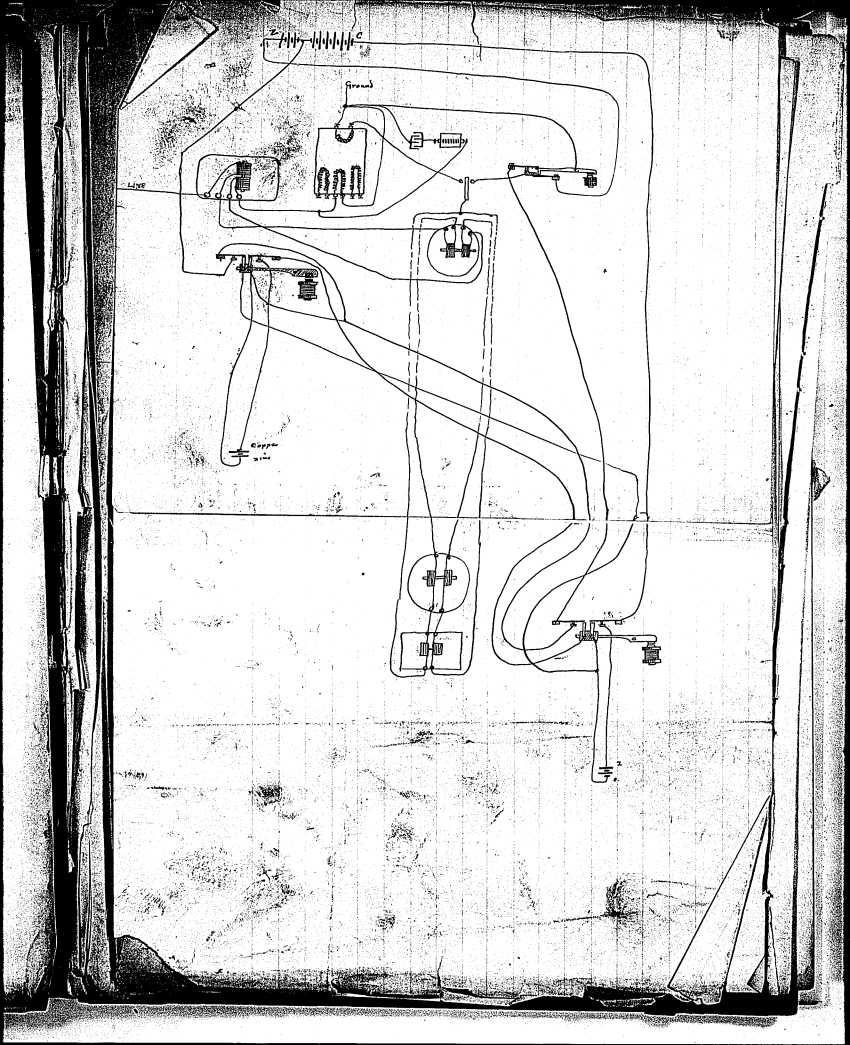
C. P. Edison

Newark.

New. Jersey.

March. 10th 1875

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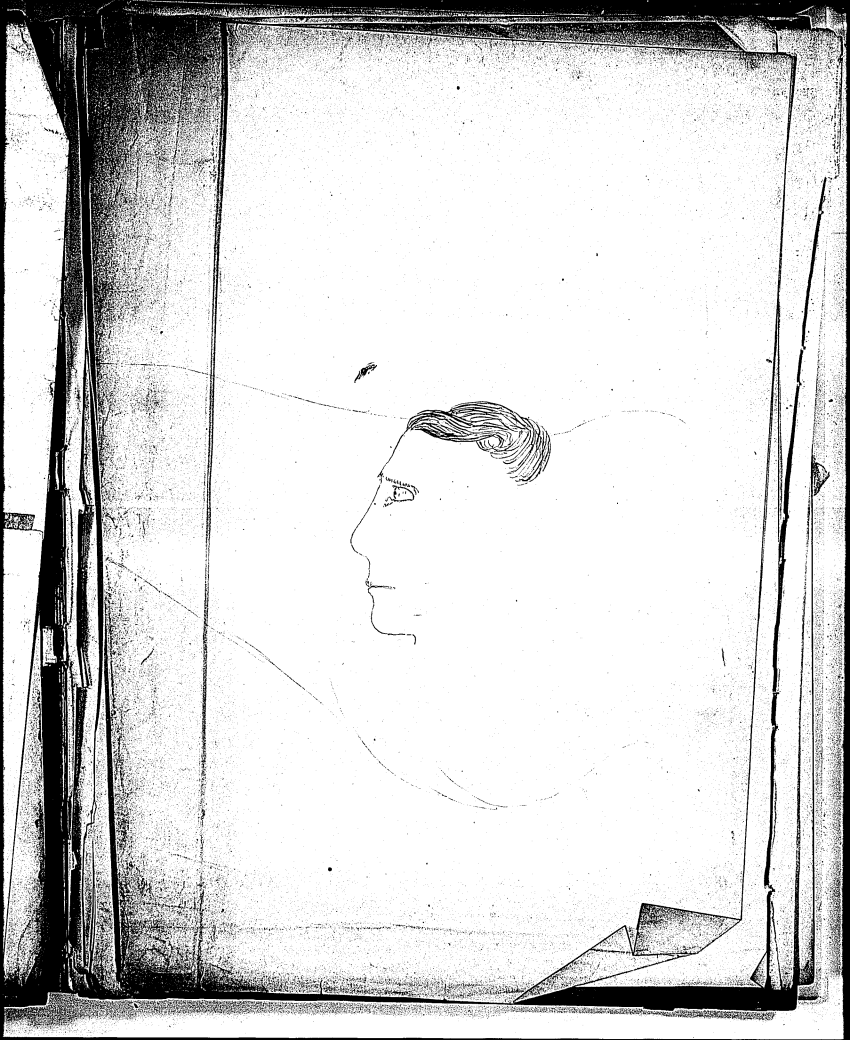

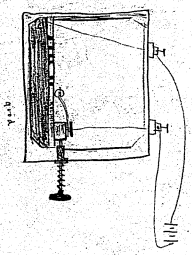

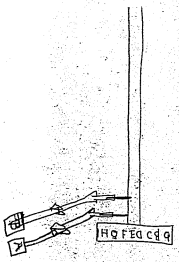
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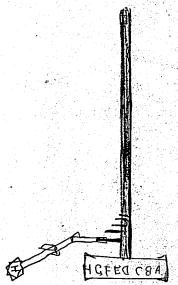
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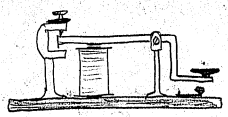
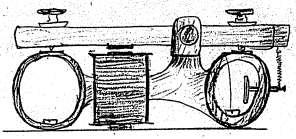
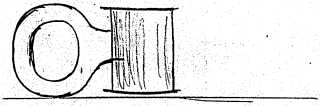
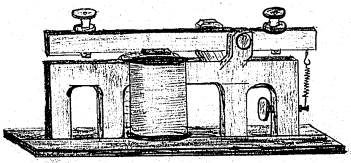


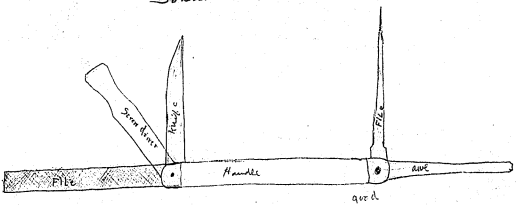


Sounder H





Sounder No 6- 2nd



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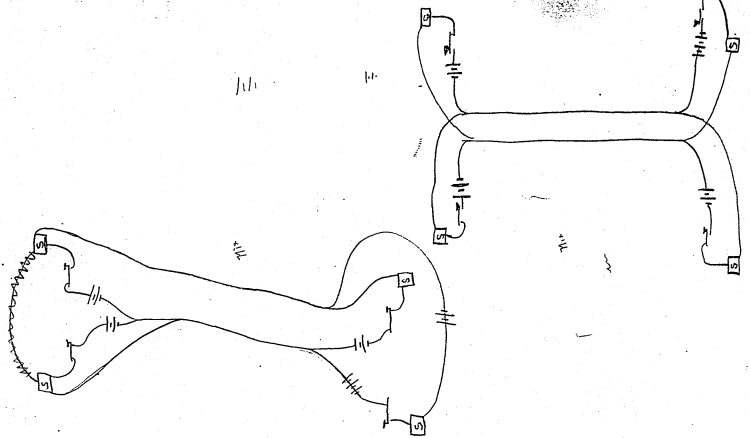

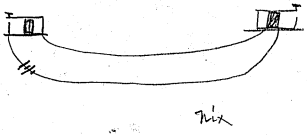

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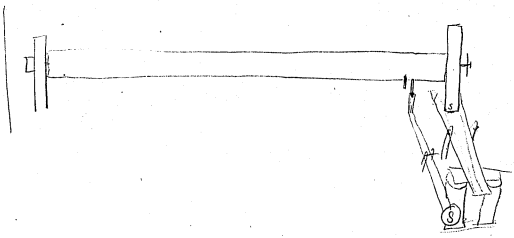

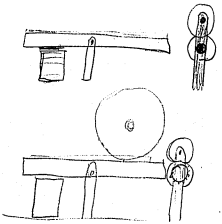

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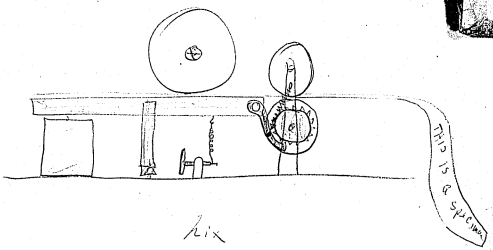
W.P.E. Dixon



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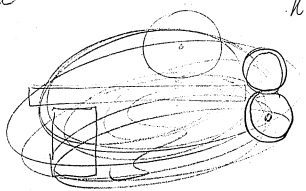

Edison

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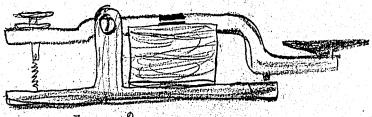
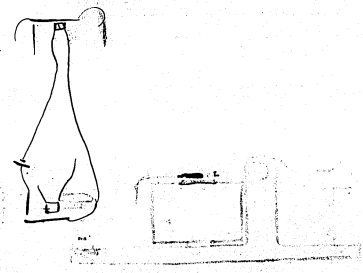
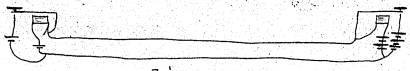
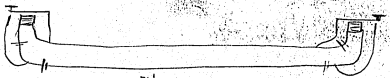


Fig. 2.
Ass. C good

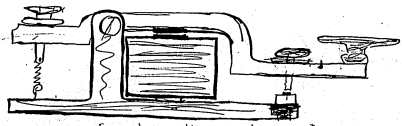




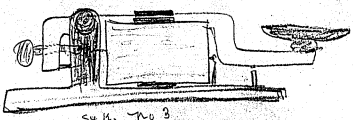
To much Mix



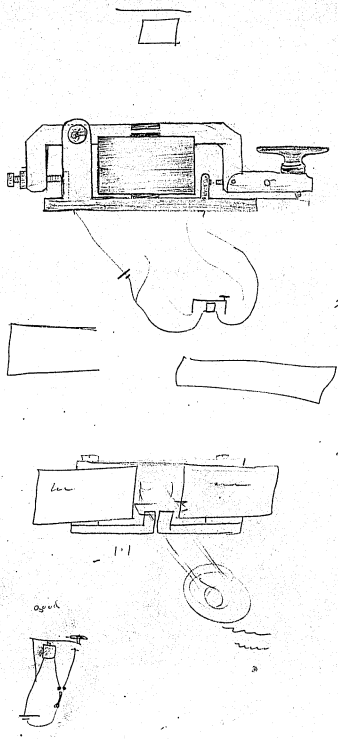
When there are a circuit in the magnet it closes the contact Points, on the Key, and cuts out the Magnet so it is Mix



Sounder & Key No 1
good



Sy K. No 3
powder Red Not Bully



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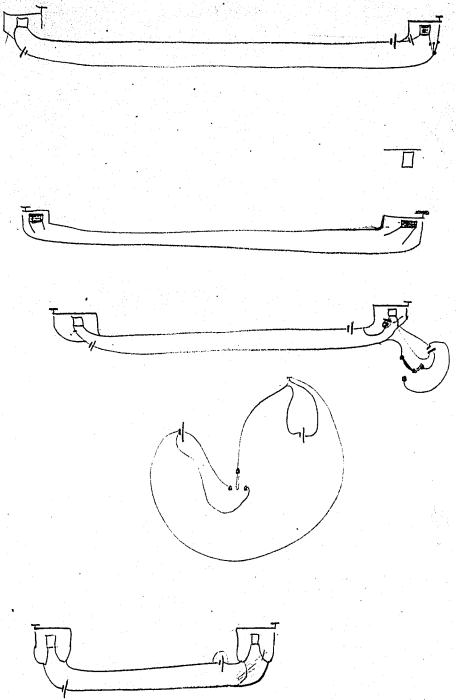

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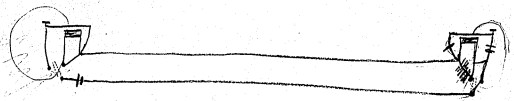

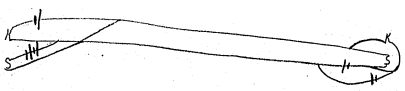

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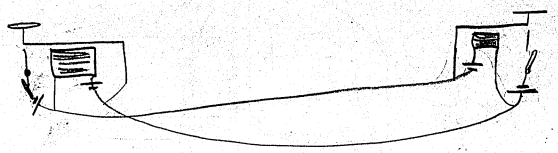
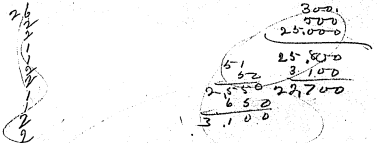
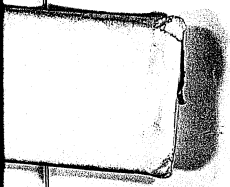
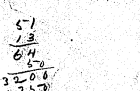
Red Hot Bobby Apartt. 10th, 1873









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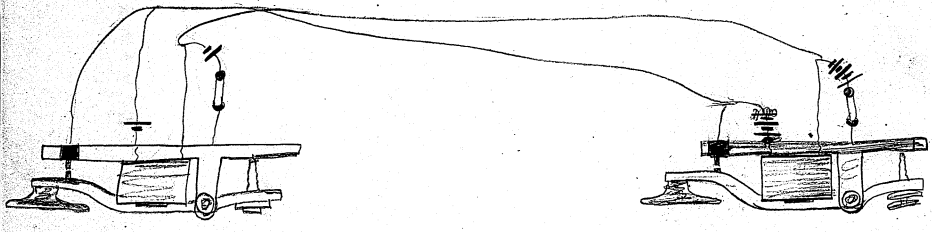

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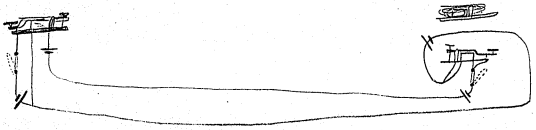
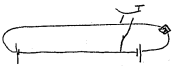
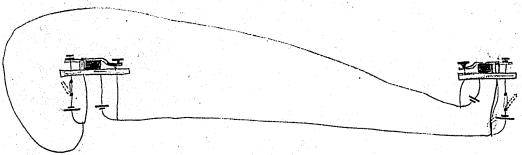


connections for. Clefson





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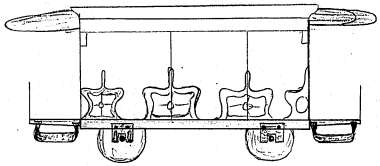

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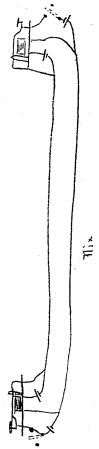

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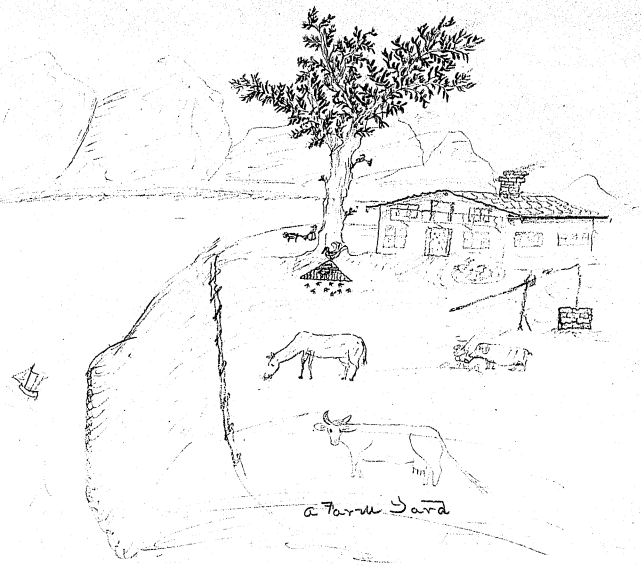

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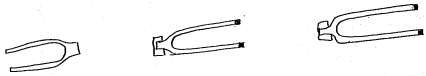

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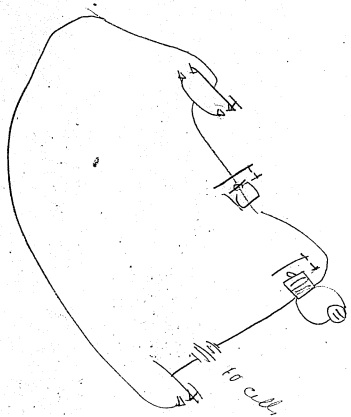

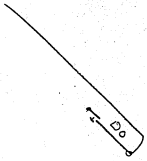

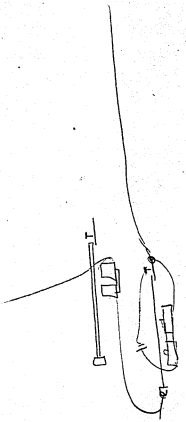

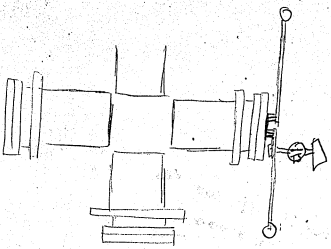

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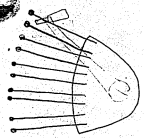

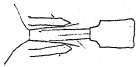

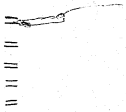

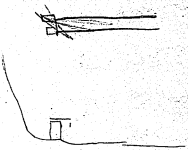

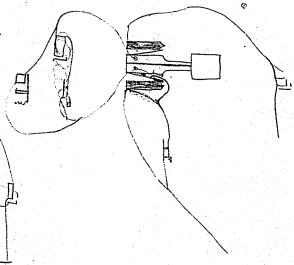

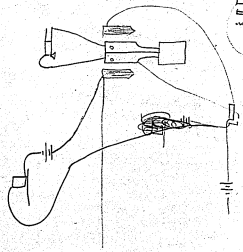

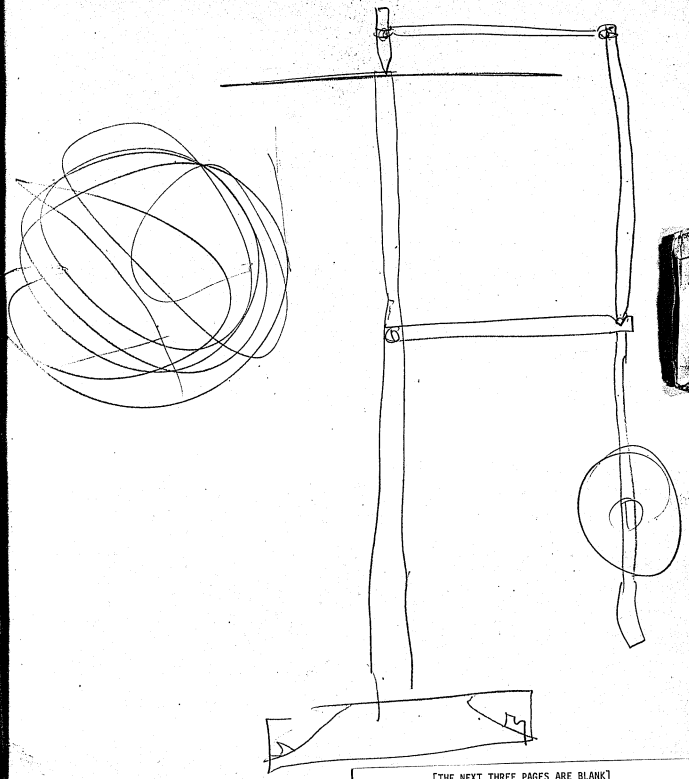

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Oct 24th 1876

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The Emperor of Russia

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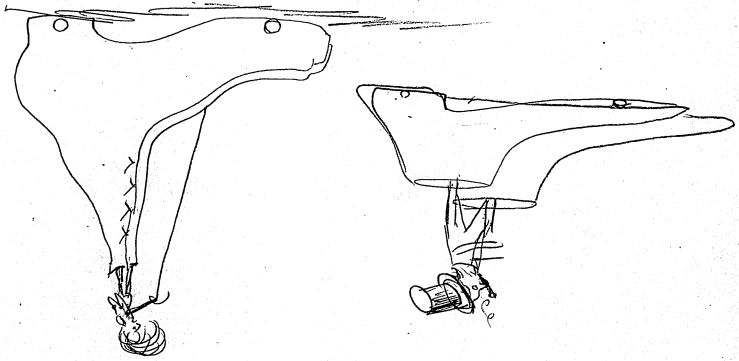

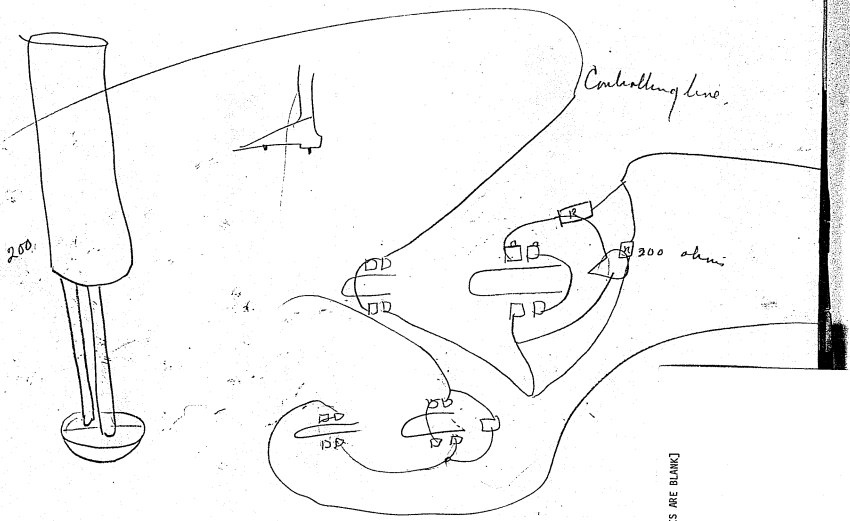

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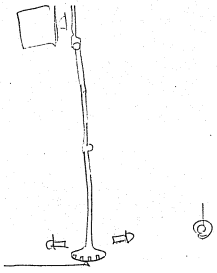

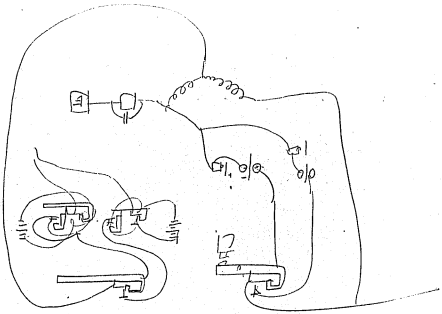

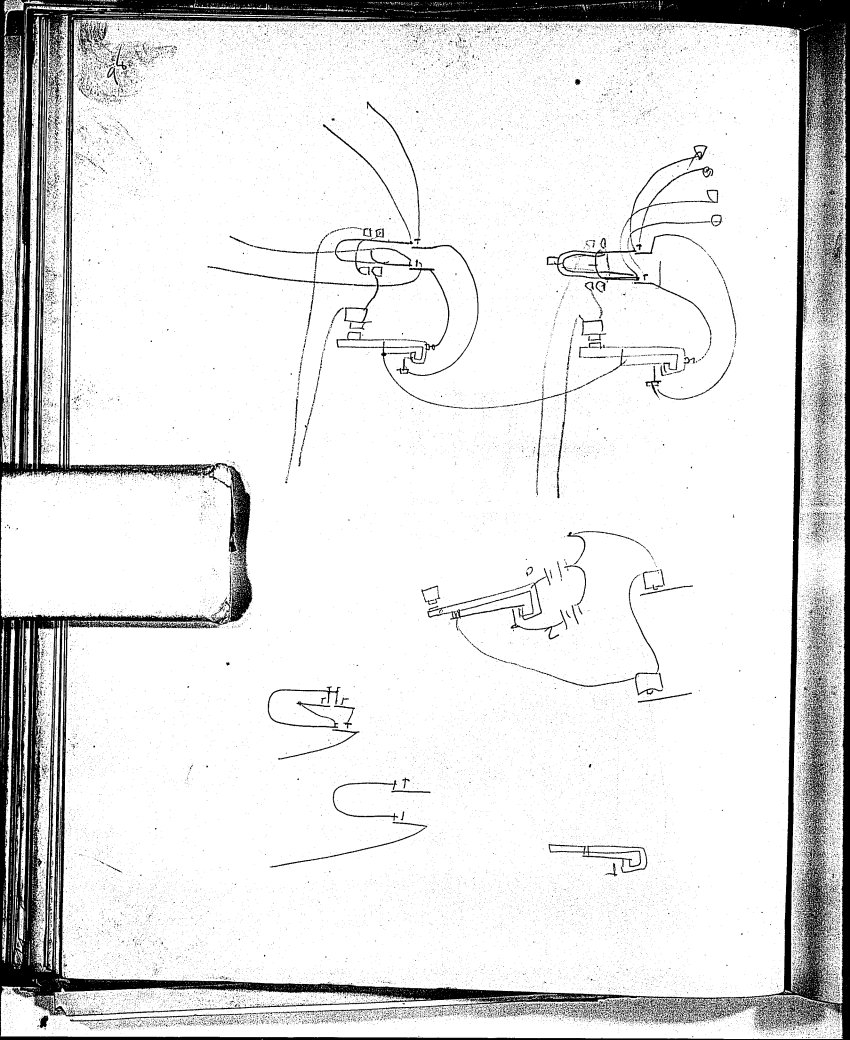

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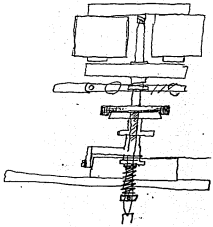

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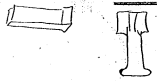

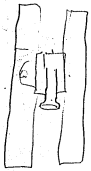

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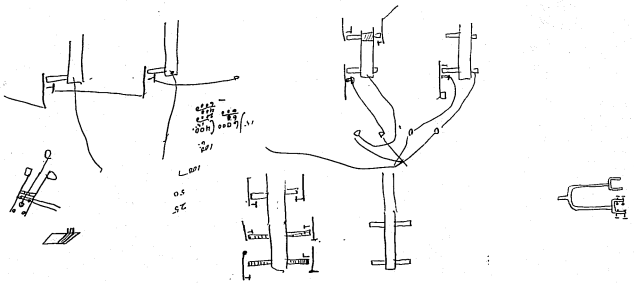

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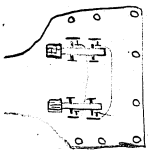

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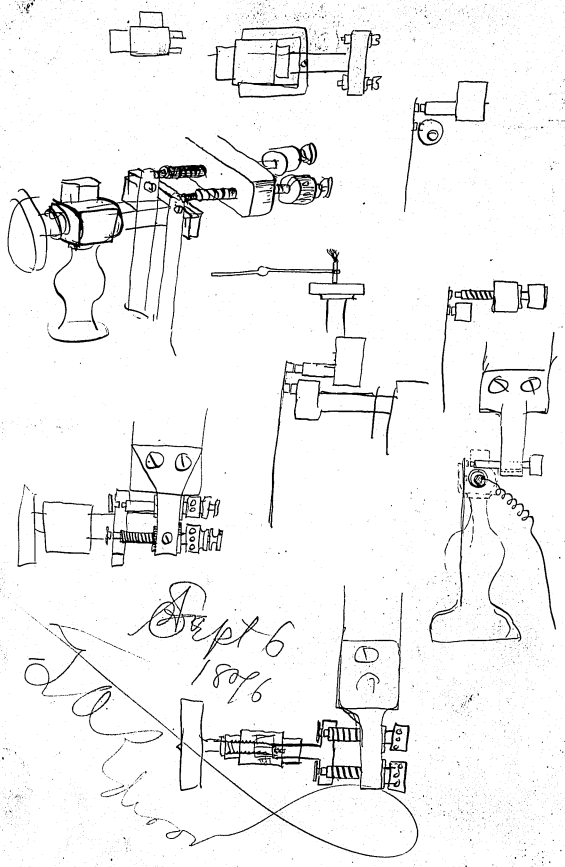
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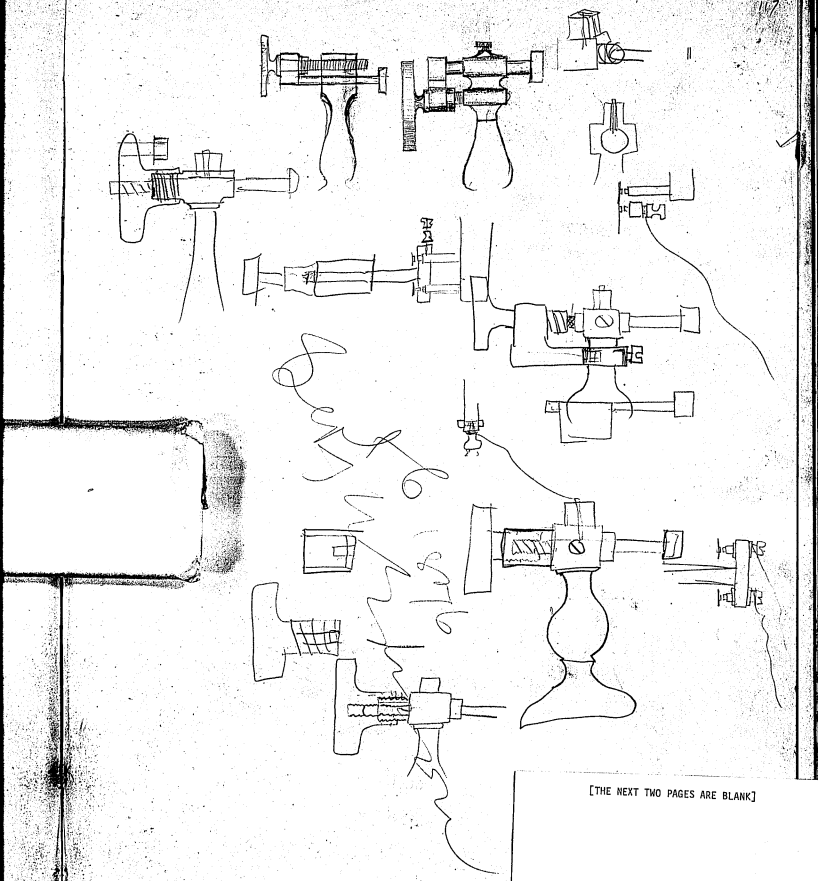

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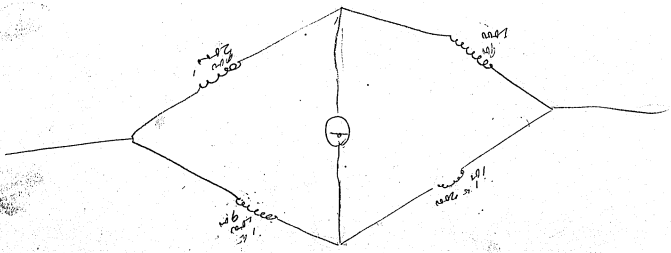

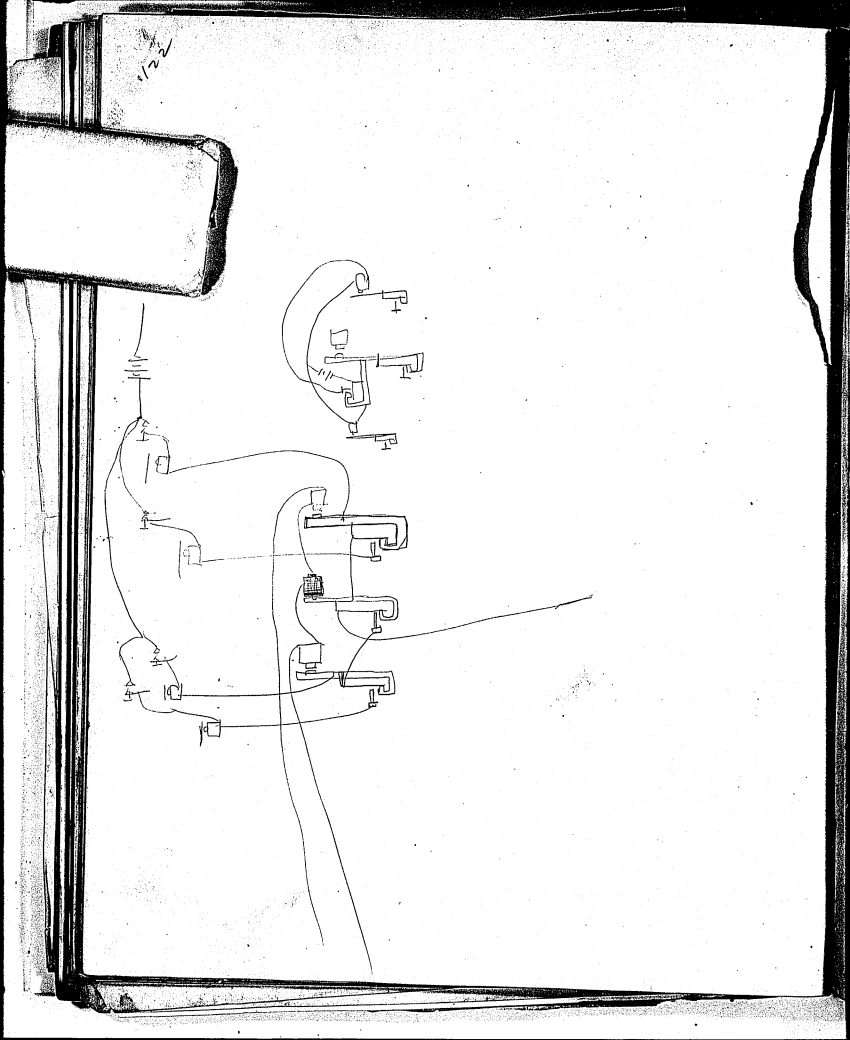

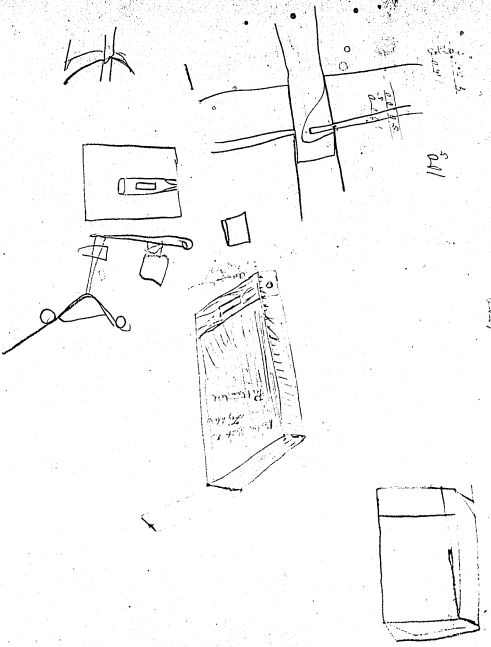

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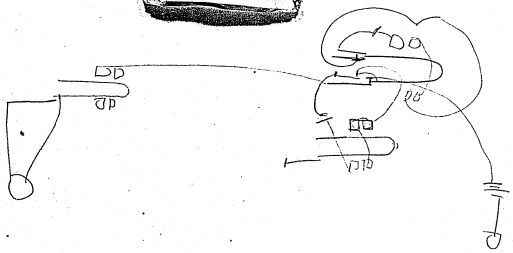

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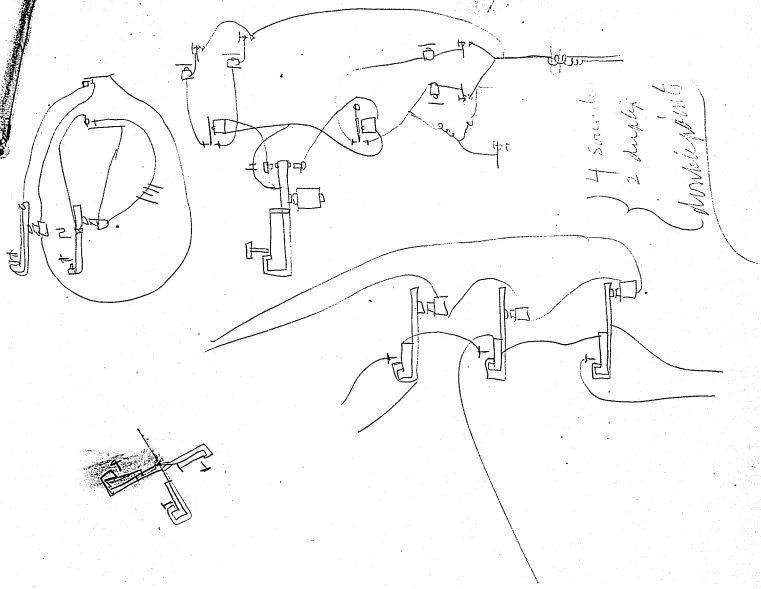

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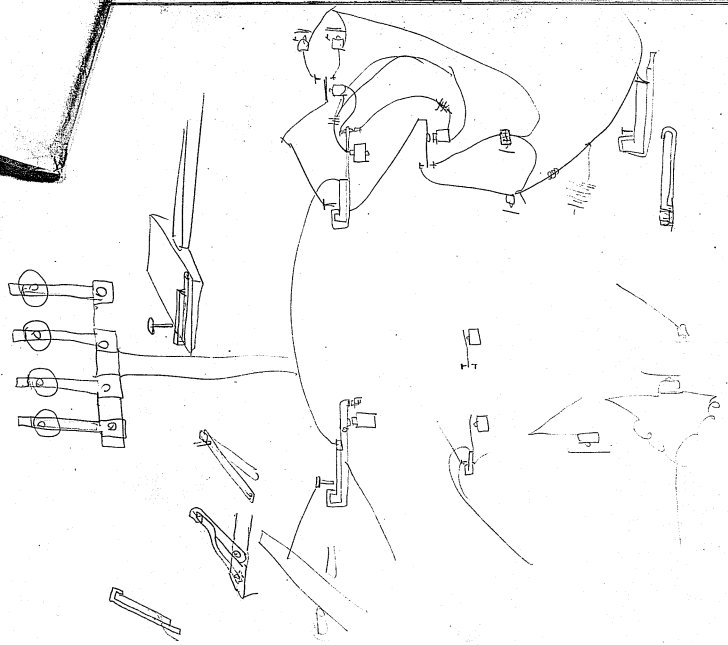

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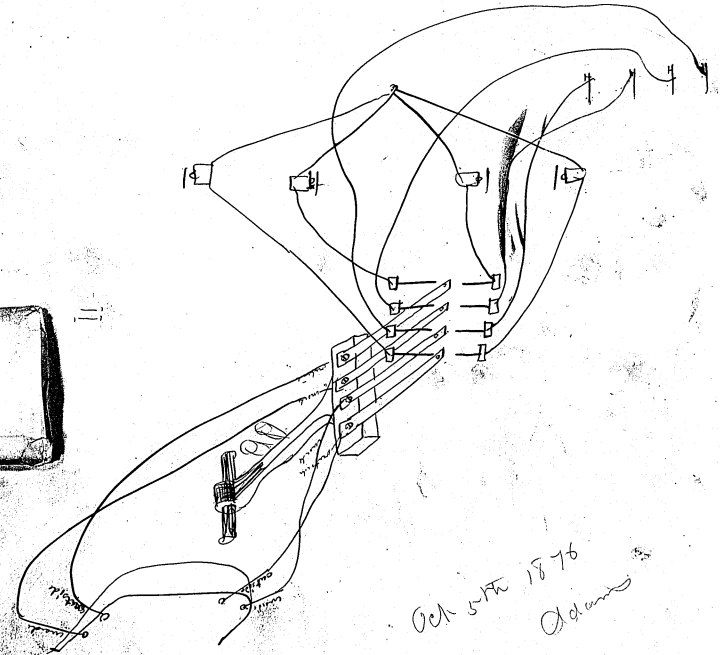

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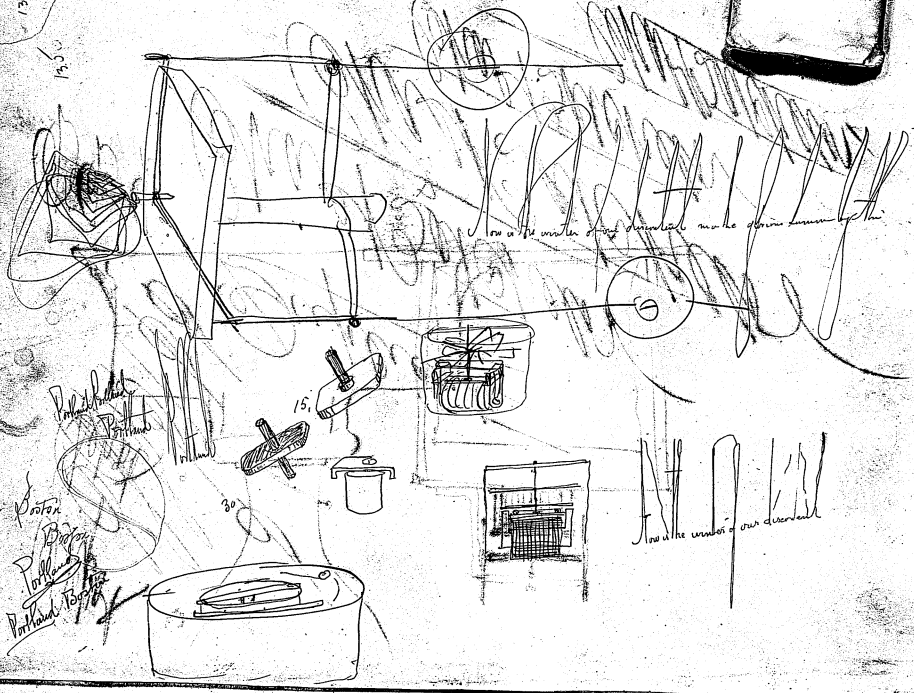
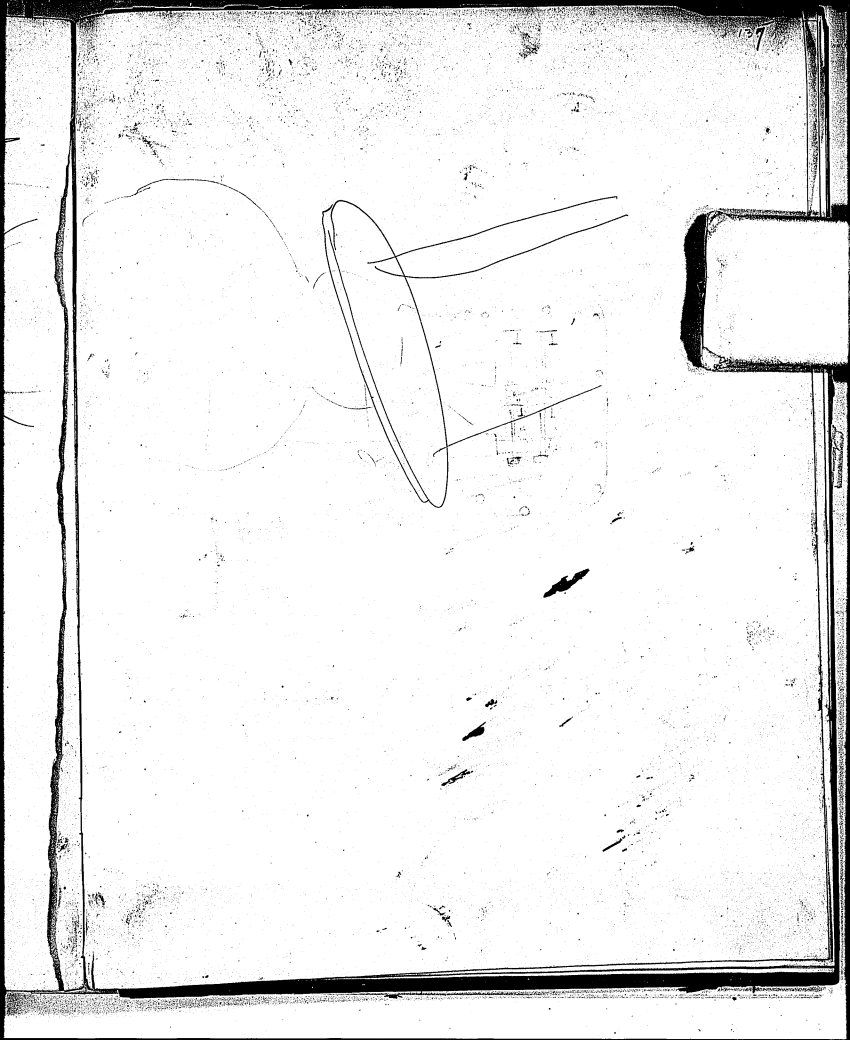
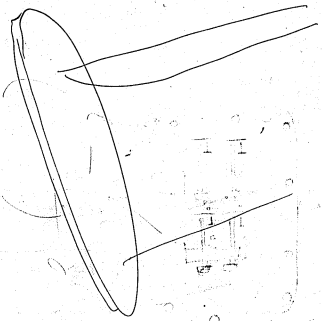


Improved Method of Attaching Wheels to Axles

Fig. 1

Fig. 2





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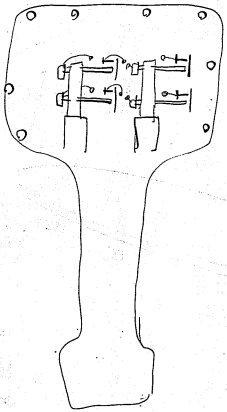

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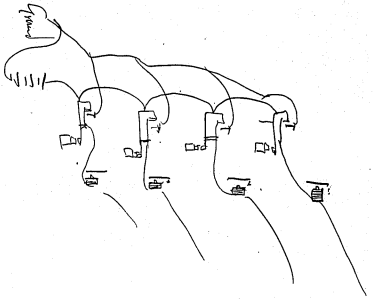

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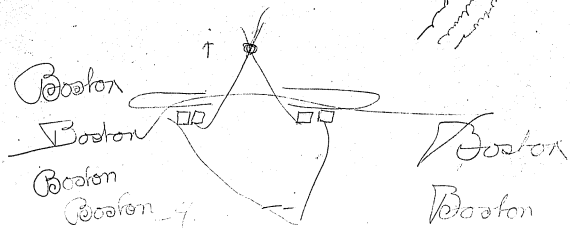
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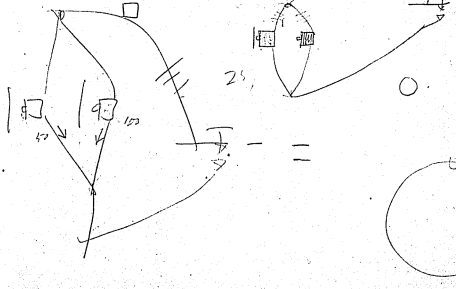
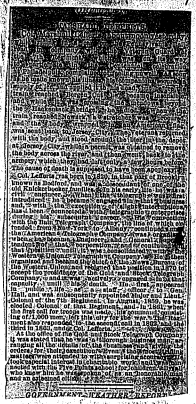
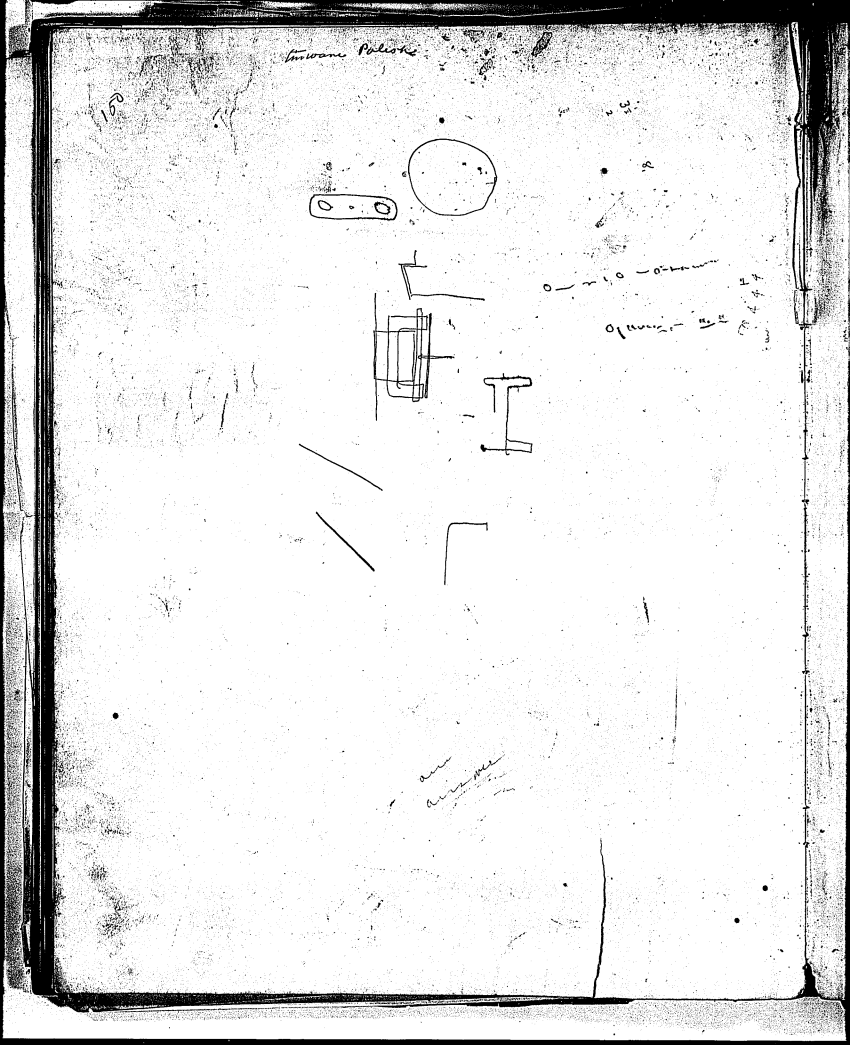






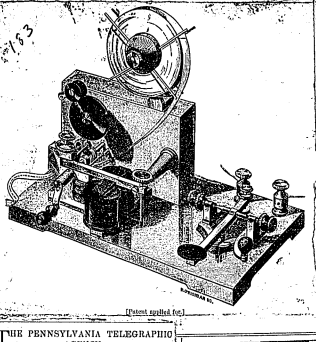
Examine to see [illegible]

Above Hudson Port Arthur-Wiscasset-to the sound up north as [illegible]

Board ashore

Aegean Lighter

more Riding Battery



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PEERLESS.

Nickel Plated.

FULL SIZE RAILROAD SOUNDER AND KEY.

NOTICE MARK OF CASE ON POLISHED BASE. Is finely finished, mounted on Walnut base.

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If money be sent in advance by registered letter..... 12 00
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Telegraphic and Electrical goods of every description at manufacturers' lowest prices.

Enrn. rom Chemicals.

THE BALTIMORE BATTERY.

[illegible] and to be Superior to any other for Telegraph [illegible] &c.,

[illegible] exhaustive test made the past year resulted in the [illegible] of our Battery.

A prominent Superintendent writes: "My impression is the [illegible] is to be the Battery of the future." He has others in [illegible] to determine the value of each in service.

[illegible] in use on commercial and railroad lines, stock report- [illegible] telephone, private lines. Superintendents' fire alarm tele- [illegible] pronounced it as the most reliable they have used.

[illegible]s furnished Gold and Stock Telegraph Co. of New York, who use no other.

[illegible] closed circuit it is without a rival.

[illegible] kinds of Battery and Battery material in

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They are furnished at the following popular prices:

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Two sets of Instruments, etc.,	13.00

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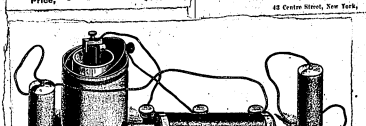

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This Relay is acknowledged to be the best in use. Is finely finished.

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ONE CUP BATTERY, CHEMICALS, WIRE AND MANUAL WITH EACH INSTRUMENT.

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Price, $7.50.

Key and Sounder only..... $5 00
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Five per cent. discount for cash in advance.

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CHAMPION BURGLAR ALARM AND ANNUNCIATOR COMPANY.

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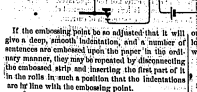
A NOVEL DEVICE.

[From The Operator.]

We hope by aid of the annexed diagram to clearly describe a method by which a person in the possession of any ordinary Morse Register may have the pleasure of listening to his own writing, of copying it from a sounder, with the assurance that any peculiarities which it may have will be perfectly reproduced.

To bring about this result, the first operation to be performed is to provide the register lever with repeating points, to which are connected the local circuit and sounder, as shown in the diagram.



If the embossing point be so adjusted that it will give a deep, smooth indentation, and a number of sentences are embossed upon the paper in the ordinary manner, they may be repeated by disconnecting the embossed strip and inserting the first part of it in the rolls in such a position that the indentations are by line with the embossing point.

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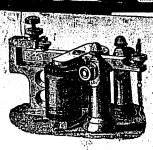
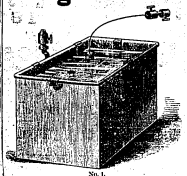


Eagle's Metallic Battery.

154



No. 1.

No. 2

The "Snapper" Sounder

PRICE 30 CENTS.

$2.00 per doz.
$1.50 1-2 do.

Patented March 8, 1875.

Polished 30 cts. or 6 for $1.50, $2.10 per doz.
Polished Nickel-Plated Base, 40c., *or 6 for $2.*
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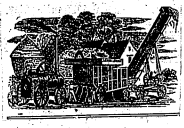
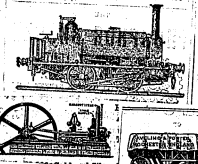
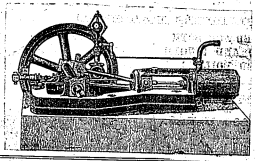
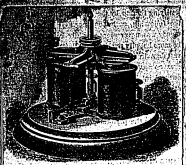


TANK LOCOMOTIVE ENGINES.







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now offer them to the public as the best Battery for Telegraphic and other purposes yet devised.

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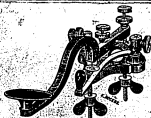

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This Key is of a beautiful design, and durable in construction, and is perfect in all things which go to constitute working Morse Key. No. 1 Key Curved or Straight Lever.

Price, $4 75.

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A complete outfit, embodying a full-size combined Sounder and Key, mounted on a handsome base, with binding screws for wire and all necessary instructions in working it, and connecting them for practising or communicating purposes, being in all respects a regular Morse Instrument, complete. A first-class Sounder and our improved curved lever Key, made of the best material, and finished in the best manner, and which cannot be surpassed in any way whatever in their adaptation to either Sounder and Key mentioned. The instructions are clear and concise, and contain all information necessary for the beginner. All technical terms and expressions are avoided, as they are of no advantage, and only tend to confuse many students.

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LITTLE MONITOR!

PRICE, $6.00.

Only One Cell of Local Necessary

A Neat, Polished, Little Instrument, having ALL the Improvements of the Larger Ones, and made on Same Principle.

A LITTLE MONITOR KEY TO MATCH!

A little less than ordinary size, with EXTRA LARGE PLATINUM POINTS, and Ivory Finger Piece, Nickel Plated Lever.

Both of the above Instruments sent on receipt of price.

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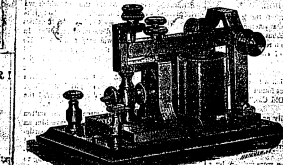

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This new Sounder is without doubt the loudest sounder ever made. It is designed especially for railroad offices where the ordinary sounder cannot be distinctly heard. Nothing can be found to equal it. Price, $7.00.

ECONOMIZE!

Preserve the bite and channel Telegraphic Instruments and Batteries, by the use of Electrical Instrument and Battery Cleaner.

LANNERT & DECKER,
104 Prospect St., Cleveland, O.

Send for circular.

GEO. H. BLISS & CO.,

41 THIRD AVENUE,
Chicago, Ill.

PRIVATE LINE INSTRUMENT.

Price, - - - $8.00.

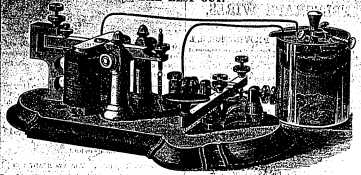
This Instrument is well finished, and gives a clear, loud sound. It is unsurpassed for use in lines from a few feet to ten miles in length. Its ordering gives assistance of learned number of other instruments in circuit.

GEO. H. BLISS & CO.
Sole Manufacturers.

PARTRICK, BUNNELL & CO'S

Champion Learners' Instruments.

THE BEST OUT.



Combined No. 1 Sounder and Key, with Battery, Chemicals, Office Wire and an Excellent Book of Practical Instruction in the Art of Telegraphy, which gives all necessary directions for setting up the Battery and complete Apparatus, and operating them for practicing or communicating purposes.

Price of Apparatus complete, good for working one mile or less, with Book of Instructions, Battery, Wire and all necessary connections, ready for immediate use, by Express, $6.50, or $6.90 if Battery Solution is to be mixed. Satisfaction guaranteed. The latter plan will admit of sending the instrument by the Express charges for returning money, and we hereby agree that whenever these Instruments, when received by the purchasers, are found to be unsatisfactory, we will receive them back, and return the amount paid us, less the Express charges.

Single Instrument, good for one mile or less, without Battery, etc.	$6.50
Single Instrument, good for one mile, Ornamental, with Rubber Covered Coils, without Battery, etc.	7.50
Single Instrument, good for one to twelve miles, without Battery, etc.	7.50
Single Instrument, Ornamental, with Rubber Covered Coils, good for 1 to 12 miles, without Battery, etc.	8.50

Battery per Cell, complete	$1 50
Extra Zincs, each	40
" Zinc Hangers, each	25
" Coppers	25
" Glass Jars	50
Office Wire, per foot	1
Iron Stone, per lb	15
Book of Instruction	25

LEARNERS' SOUNDERS AND KEYS ON SEPARATE BASES.

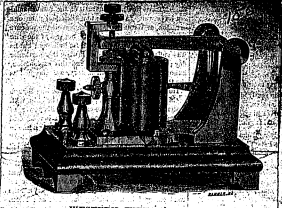
Same style as shown in cut of Champion Learners' Instruments.

Champion Learners' Sounders	$3 50
Champion Learners' Keys, fine finish	3 00
Champion Learners' Sounders, with rubber covered coils	4 00

These Instruments are now extensively known, and bear the reputation everywhere of being far superior in every respect to any form of Learners' Apparatus or Short Line Instrument yet offered.

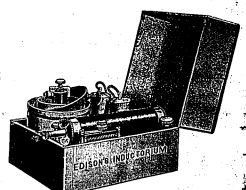
PARTRICK, BUNNELL & CO.,

No. 32 Dey Street, New York. No. 38 South Fourth Street, Philadelphia.



WESTERN UNION SOUNDER.

Some of our customers have a preference for the Western Union style of sounder, and to accommodate such, we keep these always in stock. They are carefully made and elegantly finished, and warranted perfect, as are all our Instruments. Price, $10.



PATENTED JUNE 24, 1873.

SPECIAL NOTICE.

THAT

"THE BEST IS ALWAYS CHEAPEST"

Is demonstrated by the unprecedented demand which has arisen for our

Excelsior Telegraph Apparatus

For STUDENTS and AMATEURS.

The system introduced by enterprising Agents of Managers and Operators, and sharing the profits from the sales of those instruments with them, has also assisted us increasing our sales to such an extent that we have been obliged to enlarge our facilities for their manufacture.

We are now prepared to furnish these successful Amateur Instruments, with or without Office Outfits, in any quantity, and at a moment's notice. Our Agents can now send in their orders as rapidly as they please, and can rely upon their being promptly executed.

PRICES AS HERETOFORE.

Instrument Complete, Key and Sounder	$6 50.
Instrument, with Office Outfit	7 50.
Two Instruments and Outfits	14 50.

E. G. TILLOTSON & CO.,

4 DEY STREET, NEW YORK.

Railroad Sounder.

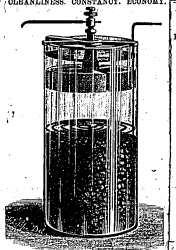
This Sounder is noted for its loudness, clear and distinct articulation, even from fine sharp wire, and is peculiarly fit for use on railroad lines, without battery.

We have improved our Sounders by using Silicon Bronze Magnets, which are far superior to soft iron.

By the Dozen, $60.00.

THE PERFECT BATTERY.

OLBANLINESS. CONSTANCY. ECONOMY.



THE

LOCKWOOD BATTERY,

PATENTED APRIL 2, 1872,

L. G. TILLOTSON & CO., Sole Agents,

No. 4 Dey Street, N. Y.

LECLANCHE BATTERIES.

IMPORTANT NOTICE.

After JANUARY 1st, 1875, we will allow TWENTY CENTS for each Leclanche Porous Cell of this Battery that are returned to us free of charge, in good order. A charge is made in the Discount on the cells. A list will be furnished on application to

THE LECLANCHE BATTERY COMPANY,

No. 4 Dey Street, New York.

E. G. TILLOTSON & CO.,

4 Dey street, sole Agents.

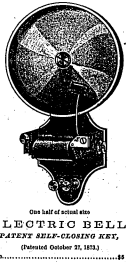
W. HOCHHAUSEN,

Manufacturer of

ELECTRICAL INSTRUMENTS,

193 WILLIAM STREET (rear),

Between Fulton and John Streets, NEW YORK.



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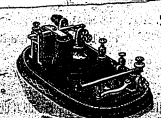
ELECTRIC BELL,

PATENT SELF-CLOSING KEY,

(Patented October 21, 1873.)

Price.....$5 00



Price, $10.